

<b>FORM PTO-1449</b> <b>INFORMATION DISCLOSURE STATEMENT</b>				<b>SERIAL NO.</b>		10/587,823	
				<b>FILING DATE</b>		December 20, 2006	
				<b>APPLICANT</b>		Mercep et al.	
				<b>GROUP</b>		1624	
				<b>EXAMINER</b>		N.E. Jarrell	
				<b>ATTORNEY DOCKET NO.</b>		PLP537USW	
<b>U.S. PATENT DOCUMENTS</b>							
<b>Examiner Initials</b>		<b>Patent Number</b>	<b>Issue Date</b>	<b>Name</b>	<b>Class</b>	<b>Subclass</b>	<b>Filing Date If Appropriate</b>
	1	3,711,489	Jan.. 16, 1973	Lombardino			
	2	3,894,032	July 8, 1975	Remy			
	3	3,974,285	Aug. 10, 1976	Remy			
	4	4,044,143	Aug. 23, 1977	Remy			
	5	4,198, 421	Apr. 15, 1980	Cherkofsky et al.			
	6	5,917,057	June 29, 1999	Hamer et al.			
Continue on page _____							
<b>FOREIGN PATENT DOCUMENTS</b>							
		<b>Document Number</b>	<b>Publication Date</b>	<b>Country</b>	<b>Class</b>	<b>Subclass</b>	<b>Translation Yes   No</b>
	7	CA 967,573	May 13, 1975	CANADA			
	8	WO 97/38991	Oct. 23, 1997	WIPO			
	9	WO 99/00355	Jan. 7, 1999	WIPO			
	10	WO 01/87890	Nov. 22, 2001	WIPO			
	11	WO 03/097649	Nov. 27, 2003	WIPO			
	12	WO 03/099823	Dec. 4, 2003	WIPO			
	13	HR 20000310	Feb. 28, 2002	CROATIA			X
	14	HR 20020453	May 23, 2002	CROATIA			X
Continue on page _____							
<b>OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)</b>							
	15	Ackermann L., Harvima I.T. "Mast cells of psoriatic and atopic dermatitis skin are positive for TNF- $\alpha$ and their degranulation is associated with expression of ICAM-1 in the epidermis." Arch. Dermatol. Res. 1998, 290:353-359.					
	16	Aderka, D. "Role of tumor necrosis factor in the pathogenesis of intravascular coagulopathy of sepsis: potential new therapeutic implications." Isr. J. Med. Sci., 1991, 27:52-60.					
	17	Arrieta O, et al. "Protective effect of pentoxifylline plus thalidomide against septic shock in mice." Int. J. Exp. Pathol. 1999, 80(1):11-16.					
	18	Badger A.M. et al. "Beneficial effects of the phosphodiesterase inhibitors BRL 61063, pentoxifylline, and rolipram in a murine model of endotoxin shock." Circ. Shock 1994 44(4):188-195.					
	19	Badger et al. "Pharmacological profile of SB 203580, a selective inhibitor of cytokine suppressive binding protein/p38 kinase, in animal models of arthritis, bone resorption, endotoxin shock and immune function." J. Pharmac. Env. Therap., 1996, 279(3):1453-1461.					
	20	Becker et al. "Photochemistry of the Anthracene Chromophore: Novel Isomerization of 1-(9-Anthryl)-2-Benzoethylenes." Tetrahedron Lett., 1985. 26(12):1589-1592.					
	21	Bissonnette E. Y. et al. "Inhibition of tumour necrosis factor-alpha (TNF-alpha) release from mast cells by the anti-inflammatory drugs, sodium cromoglycate and nedocromil sodium." Clin. Exp. Immunol. 1995, 102:78-84.					
	22	Bresnihan. "Treatment with recombinant human interleukin-1 receptor antagonist (rhIL-1ra) in rheumatoid arthritis (RA); results of randomized double-blind, placebo-controlled multicenter trial." Arthrit. Rheum., 1996, 39:73.					
	23	Cagniant. C.R. Hebd. Sceances Acad. Sci., 1976, 283:683-686					
	24	Carswell et al. "An endotoxin-induced serum factor that causes necrosis of tumors." Proc. Natl. Acad. Sci. U.S.A., 1975, 72:3666-3670.					
	25	Chapman P.T. et al. "Endothelial activation in monosodium urate monohydrate crystal-induced inflammation: in vitro and in vivo studies on the roles of tumor necrosis factor alpha and interleukin-I." Arthritis Rheum., 1997, 40:955-965.					

26	Cheung A. T. et al. "An in vivo model for elucidation of the mechanism of tumor necrosis factor-alpha (TNF-alpha)-induced insulin resistance: evidence for differential regulation of insulin signaling by TNF-alpha." <i>Endocrinology</i> , 1998, 139:4928-4935.
27	Collier et al. "The abdominal constriction response and its suppression by analgesic drugs in the mouse." <i>Br. J. Pharmac. Chemother.</i> , 1968, 32:295-310
28	Corral L., et al. "Differential Cytokine Modulation and T Cell Activation by Two Distinct Classes of Thalidomide Analogues That are Potent Inhibitors of TNF- $\alpha$ ." <i>The Journal of Immunology</i> 1999, 163:380-386.
29	Dibbs Z, et al. "Cytokines in heart failure:pathogenetic mechanisms and potential treatment." <i>Proc. Assoc. Am. Physicians</i> , 1999, 111:423-428.
30	Di Francia M. et al. "Tumor necrosis factor-alpha levels and weight loss in chronic obstructive pulmonary disease." <i>AM. J. Respir. Crit. Care Med.</i> 1994, 150:1453-1455.
31	Dinarello. "An update on human interleukin-1: From molecular biology to clinical relevance." <i>J. Clinical Immunology</i> , 1985, 5:287.
32	Dinarello. "Interleukin-1." <i>Rev. Infect. Disease</i> , 1984, 6(1):51-95.
33	Duong D.J. et al. "American experience with lowdose thalidomide therapy for severe cutaneous lupus erythematosus." <i>Arch. Dermatol.</i> 1999 135 (9):1079-1087.
34	Egido J. et al. "Role of tumor necrosis factor-alpha in the pathogenesis of glomerular diseases." <i>Kidney Int. Suppl.</i> 1993, 39:59-64.
35	Elliot et al. "Randomised double-blind comparison of chimeric monoclonal antibody to tumor necrosis factor alpha (cA2) versus placebo in rheumatoid arthritis." <i>The Lancet</i> , 1994, 344:1105-1110.
36	M. Feldman et al. "Role of Cytokines in Rheumatoid Arthritis." <i>Annu. Rev. Immunol.</i> 1996 14:397-440.
37	Fukawa et al. "A method for evaluating analgesic agents in rats." <i>J. Pharmacol. Meth.</i> , 1980, 4:251-259.
38	Gauldie J. et al. "Cytokines and pulmonary fibrosis." <i>Thorax</i> , 1993, 48:931-935.
39	Georgopoulos et al. "Transmembrane TNF is sufficient to induce localized tissue toxicity and chronic inflammatory arthritis in transgenic mice." <i>J. Inflamm.</i> , 1996, 46:86-97.
40	Gruschwitz, M., et al. "In situ Expression and Serum Levels of Tumor Necrosis Factor- $\alpha$ Receptors in Patients with Early Stages of Systemic Sclerosis." <i>Journal Rheumatology</i> 1997; 24:1936-43.
41	Heilig, B. et al. "Elevated TNF Receptor Plasma Concentrations in Patients with Rheumatoid Arthritis." <i>Clinical Investigation</i> 1992; 70:22-27.
42	Heilig B et al. "[Expression of TNF receptors in rheumatoid arthritis and ankylosing spondylitis]." [Article in German]. <i>Z Rheumatol.</i> 1993 Nov-Dec; 52(6):383-9.
43	Hotamisligil G.S., Spiegelman B.M. "Tumor necrosis factor alpha: a key component of the obesity-diabetes link." <i>Diabetes</i> , 1994, 43:1271-1278.
44	Iyer and Gopalachari. "Studies in Potential Antifertility Agents: Part VII - Synthesis of Dialkylaminoethyl Derivatives of 2,4,5Triphenylpyrroles & 2,4,5Triphenylfurans." <i>Indian J. Chem.</i> , 1973, 11:1260-1262.
45	Jones et al. "Antiestrogens. 2. Structure-activity studies in a series of 3-aryl-2-arylbenzo[b]thiophene derivatives leading to [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl)ethoxy]-phenyl]methanone hydrochloride (LY156758), a remarkably effective estrogen antagonist with only minimal intrinsic estrogenicity." <i>J. Med. Chem.</i> , 1984, 27:1057-1066.
46	Kapadia S. et al. "The role of cytokines in the failing human heart." <i>Cardiol. Clin.</i> , 1998, 16:645-656.
47	King, F.D. "Bioisosteres, Conformational Restriction, and Pro-Drugs – Case History: An Example of a Conformational Restriction Approach." <i>Med. Chem.: Principle and Practice</i> (1994) p. 206-208.
48	Kefer, et al. "Transgenic mice expressing human tumour necrosis factor: a predictive genetic model of arthritis." <i>EMBO J.</i> , 1991, 10:4025-4031.
49	Kluth D.C., Rees A.J. "Inhibiting inflammatory cytokines." <i>Semin. Nephrol.</i> 1996, 16:576-582.
50	Kopicova et al. "Potential Tetracyclic Neuroleptics: 12-(4-methylpiperazino)benzo[b]naphtho[2,3-f]theipin and its 12,13-dihydro Derivative." <i>Collect. Czech. Chem. Commun.</i> , 1975.40:1960-1965.
51	Kopicova and Protiva. "Synthesis of 7-(4-methylpiperazino)-7,8-dihydrobenzo[b]naphtho[2,1-f]thiepin and of Related Compunds." <i>Collect. Czech. Chem. Commun.</i> , 1974, 39:3147-3152.
52	Krakauer T, Stiles BG. "Pentoxifylline inhibits superantigen-induced toxic shock and cytokine release." <i>Clin Diagn Lab Immunol.</i> 1999 Jul.6(4):594-8.
53	Liedtke W. "Effective Treatment of Models of Multiple Sclerosis by Matrix Metalloproteinase Inhibitors." <i>An. of Neurology</i> , 1998, Vol. 44; 35-46.
54	Liu J.Y. et al. "TNF-alpha receptor knockout mice are protected from the fibroproliferative effects of inhaled asbestos fibers." <i>Am. J. Pathol.</i> , 1998, 153:1839-1847.
55	Maini R.N, Taylor P.C. "Anti-Cytokine Therapy for Rheumatoid Arthritis." <i>Annu. Rev. Med.</i> 2000 51:207-229.
56	Martel-Pelletier J., Alaaeddine N. Pelletier JP. "Cytokines and their role in the pathophysiology of osteoarthritis." <i>Front Biosci</i> , 1999 4:D694-703.
57	Mattioli and Ghia. "Omega-dialkylaminoalkyl ethers of phenyl-(5-substituted 1-phenyl-1H-pyrazol-4-yl)methanols with analgesic and anti-inflammatory activity." <i>J. Heterocyclic Chem.</i> , 1997, 34:963-968.

58	Matsukawa A, et al. "Analysis of the Cytokine Network Among Tumor Necrosis Factor $\alpha$ , Interleukin-1 $\beta$ , Interleukin-8 and Interleukin-I Receptor Antagonist in Monosodium Urate Crystal-Induced Rabbit Arthritis." <i>Lab Invest</i> 1998; 78:559-569.
59	McHugh et al. "Preparation of 8H-Furo[3,4-d]dibenz[b,f]azepine. A Novel Heterocyclic Ring System." <i>J. Heterocycl. Chem.</i> , 1990, 27:1839-42.
60	Mori et al. "Photochemical reactions of anthracene-naphthalene bichromophoric systems linked by a three-carbon chain." <i>J. Chem. Soc., Perkin Trans. 2</i> , 1996, 1:113-119.
61	Mori et al. "Attenuation of collagen-induced arthritis in 55-kDa TNF receptor type 1 (TNFR1)-IgG1-treated and TNFR1-deficient mice." <i>J. Immunol.</i> , 1996, 157:3178-3182.
62	Noguchi, M., et al. "Secretion Imbalance between Tumor Necrosis Factor and its inhibitor in inflammatory bowel disease." <i>Gut</i> 1998, 43:203-209.
63	Nyiondi-Bonguen et al. "[4+2] - Cycloadditions of 3-Amino-4-imino-4H-thieno[3,4-c][1]benzopyran with some Selected Dienophiles." <i>J. Chem Soc., Perkin Trans. 1</i> , 1994, 15:2191-2195.
64	Odeh M. "Role of Cytokines in Rheumatoid Arthritis." <i>Drugs News Perspect.</i> 11(6) 1998, 331-341.
65	Oliver S., et al. "The Effect of Thalidomide and 2 Analogs on Collagen Induced Arthritis." <i>Journal of Rheumatology</i> 1998; 25:964-9.
66	Peleman R.A., Kips J.C., Pauwels R.A. "Therapeutic activities of theophylline in chronic obstructive pulmonary disease." <i>Clin. Exp. Allergy</i> 1998 28 Suppl 1. 3:53-56.
67	Pfeffer et al. "Mice deficient for the 55kd tumor necrosis factor receptor are resistant to endotoxic shock, yet succumb to <i>L. monocytogenes</i> infection." <i>Cell</i> , 1993, 73:457-467.
68	Piguet P.F. et al. "Expression and localization of tumor necrosis factor-alpha and its mRNA in idiopathic pulmonary fibrosis." <i>Am. J. Pathol.</i> 1993, 143:651-655.
69	Piguet P.F., Vesin C. "Treatment by human recombinant soluble TNF receptor of pulmonary fibrosis induced by bleomycin or silica in mice." <i>Eur. Respir. J.</i> , 1994, 7:515-518.
70	Reimund J. "In vitro effects of oxpentifylline on Inflammatory Cytokine Release in Patients with Inflammatory Bowel Disease." <i>Gut</i> 1997, 40:475-480.
71	Ross S., et al. "Suppression of TNF $\alpha$ Expression, Inhibition of TH1 Activity and Amelioration of Collagen-Induced Arthritis by Rolipram." <i>Journal of Immunology</i> , 1997, 159:6253-6259.
72	Rutgeerts P. et al. "Efficacy and Safety of Retreatment with Anti-Tumor Necrosis Factor Antibody (Infliximab) to Maintain Remission in Crohn's Disease." <i>Gastroenterology.</i> , 1999, 117:761-769.
73	Sandborn W. and Hanauer S. "Antitumor Necrosis Factor Therapy for Inflammatory Bowel Disease; A review of Agents, Pharmacology, Clinical Results and Safety." <i>Inflammatory Bowel Diseases</i> 1999, 5(2):119-133.
74	Saricaoglu H. et al. "Prevention of nickel-induced allergic contact reactions with pentoxifylline." <i>Contact Dermatitis</i> 1998, 39(5):244-247.
75	Sasayama S. et al. "New insights into the pathophysiological role for cytokines in heart failure." <i>Cardiovasc Res.</i> 1999, 42:557-564.
76	Schmidt H. et al. "Thalidomide inhibits TNF response and increases survival following endotoxin injection in rats." <i>J. Surg. Res.</i> 1996 63(1):143-146.
77	Schweizer et al. "Combined automated writhing/motility test for testing analgesics." <i>Agents and Actions</i> , 1988, 23:29-31.
78	Shire, MG and Muller GW. "TNF- $\alpha$ inhibitors and rheumatoid arthritis." <i>Exp. Opin. Ther. Patents.</i> 1998 8(5): 531-544.
79	Stirling D. I. Semin. "Thalidomide and its impact in dermatology." <i>Cutan. Med. Surg.</i> 1998 17(4):231-242.
80	Sykes A.P., et al. "The effect of an inhibitor of matrix metalloproteinases on colonic inflammation in a Erinitrobenzenesulphonic acid rat model of inflammatory bowel disease." <i>Aliment Pharmacol Ther.</i> 1999, 13:1535-1542.
81	Taylor R. Multiple Sclerosis: A Rehabilitative Approach, 1998, 9, 3, 525-536. "Immunologic Aspects of Multiple Sclerosis."
82	Tochtermann et al. Ein neuer Zugang zu chiralen Tribenzocycloheptarien-(Tribenzo-[a.c.e]cyclohepten-) und Tribenzo[b,d.flthiepin-S,S-dioxid-Derivaten." <i>Chem. Ber.</i> , 1968, 101:3122-3137.
83	Tomizawa S. et al. "TNF inhibitory activity in the urine of chronic renal failure patients with glomerulonephritis." <i>Nephron.</i> 1993, 63:111-112.
84	Tsuji et al. "Studies on Anti-Inflammatory Agents. VI. Synthesis and Pharmacological Properties of 2,3-Diarylthiophenes." <i>Chem. Pharm. Bull.</i> , 1998, 46(2):279-286.
85	Ueda et al. "The Synthesis of 10-(4-Methylpiperazino)dibenzo[b,flthiepin and Related Compunds. Neurotrpic and Psychotropic Agents." <i>Chem. Pharm. Bull.</i> , 1975, 23(10):2223-2231.
86	Van Assche and Rutgeerts. "Anti-TNF agents in Chrohn's disease." <i>Exp. Opin. Invest. Drugs</i> , 2000, 9:103-111.
87	Vippagunta, S.R. et al. "Crystalline solids." <i>Advanced Drug Delivery Reviews</i> , 2001, 48(1):3-26.
88	Wermuth et al. "Molecular Variations Based on Isosteric Replacements." <i>Practice of Medicinal Chemistry</i> , 1996, pages 203-237.
89	Westacott C.I. et al. "Tumor necrosis factor alpha can contribute to focal loss of cartilage in osteoarthritis." <i>Osteoarthritis Cartilage</i> 2000 8(3):213-221.

90	Wim B van den Berg, Ph.D. "Anti-Cytokine Therapy in Chronic Destructive Arthritis." Arthritis Res 2001, 3:18-26.
91	Postmarketing Adverse Event Data for TNF-alpha Antagonists (October 23, 2001). Stephen A. Paget, MD < <a href="http://rheumatology.hss.edu/phys/specialreports/pagetttnf.asp">http://rheumatology.hss.edu/phys/specialreports/pagetttnf.asp</a> >
92	Green (Using TNF alpha technology to treat rheumatoid arthritis) Article (July/August 2004). < <a href="http://rheumatology.hss.edu/phys/specialreports/pagetttnf.asp">http://rheumatology.hss.edu/phys/specialreports/pagetttnf.asp</a> >
93	Centocor products (08/11/2004) < <a href="http://www.centocor.com/cgi-bin/site/products/prod_remicade.cgi">http://www.centocor.com/cgi-bin/site/products/prod_remicade.cgi</a> is cited for the statement that>
94	"News & Notices: <a href="http://www.psoriasis.org/enbrel.approval.jan02.htm">http://www.psoriasis.org/enbrel.approval.jan02.htm</a> (7/30/2002).
Continue on page ____	
EXAMINER	DATE CONSIDERED
/Noble Jarrell/ (12/05/2008)	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.J./ (12/05/2008)